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# 1 [A high performance transparent bridge](#)

Martina Zitterbart, Ahmed N. Tantawy, Dimitrios N. Serpanos

 August 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 4

 Full text available: [pdf\(1.41 MB\)](#)

 Additional Information: [full citation](#), [references](#), [index terms](#)

# 2 [Distributed systems - programming and management: On remote procedure call](#)

Patricia Gomes Soares

 November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

 Full text available: [pdf\(4.52 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

# 3 [Memory-efficient state lookups with fast updates](#)

Sandeep Sikka, George Varghese

 August 2000 **ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication**, Volume 30 Issue 4

 Full text available: [pdf\(384.82 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Routers must do a best matching prefix lookup for every packet; solutions for Gigabit speeds are well known. As Internet link speeds higher, we seek a scalable solution whose speed scales with memory speeds while allowing large prefix databases. In this paper we show that providing such a solution requires careful attention to memory allocation and pipelining. This is because fast lookups require on-chip or off-chip SRAM which is limited by either expense ...

# 4 [A bridging model for parallel computation](#)

Leslie G. Valiant

 August 1990 **Communications of the ACM**, Volume 33 Issue 8

 Full text available: [pdf\(1.10 MB\)](#)


 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The success of the von Neumann model of sequential computation is attributable to the fact that it is an efficient bridge between software and hardware: high-level languages can be efficiently compiled on to this model; yet it can be efficiently implemented in hardware. The author argues that an analogous bridge between software and hardware is required for parallel computation if that is to become as widely used. This article introduces the bulk-synchronous parallel (BSP) model as a candid ...

## 5 Local networks

William Stallings

March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1


Full text available:  pdf(3.01 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

## 6 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available:  pdf(5.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

## 7 An architecture for packet-striping protocols

Adishesu Hari, George Varghese, Guru Parulkar

November 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 4

Full text available:  pdf(220.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Link-striping algorithms are often used to overcome transmission bottlenecks in computer networks. Traditional striping algorithms suffer from two major disadvantages. They provide inadequate load sharing in the presence of variable-length packets, and may result in non-FIFO delivery of data. We describe a new family of link-striping algorithms that solves both problems. Our scheme applies to any layer that can provide multiple FIFO channels. We deal with variable-sized packets by showing h ...

**Keywords:** causal fair queuing, fair queuing, load sharing, multilink PPP, packet striping, stripe protocol, striping

## 8 The click modular router

Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Full text available:  pdf(376.31 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

**Keywords:** component systems, routers, software router performance

**9 Data-Driven and Demand-Driven Computer Architecture**

Philip C. Treleaven, David R. Brownbridge, Richard P. Hopkins

January 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1Full text available:  pdf(4.14 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**10 A pipelined memory architecture for high throughput network processors**

Timothy Sherwood, George Varghese, Brad Calder

May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture**, Volume 31 Issue 2Full text available:  pdf(213.66 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Designing ASICs for each new generation of backbone routers is a time intensive and fiscally draining process. In this paper we focus on the design of a programmable architecture for backbone routers, based on the manipulation of wide irregular memory words, that can provide a feasible design alternative to custom ASICs. We propose a pipelined memory design that emphasizes worst-case throughput over latency, and co-explore architectural tradeoffs with the design of several important network algo ...

**11 Scalable high-speed prefix matching**

Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner


November 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 4Full text available:  pdf(933.02 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Finding the longest matching prefix from a database of keywords is an old problem with a number of applications, ranging from dictionary searches to advanced memory management to computational geometry. But perhaps today's most frequent best matching prefix lookups occur in the Internet, when forwarding packets from router to router. Internet traffic volume and link speeds are rapidly increasing; at the same time, a growing user population is increasing the size of routing tables against which p ...

**Keywords:** collision resolution, forwarding lookups, high-speed networking

**12 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  pdf(4.21 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**13 IP lookups using multiway and multicolumn search**

Butler Lampson, Venkatachary Srinivasan, George Varghese

June 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 3Full text available:  pdf(173.06 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**14 Computing curricula 2001**September 2001 **Journal on Educational Resources in Computing (JERIC)**


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### 15 [Fast and scalable wireless handoffs in supports of mobile Internet audio](#)

Ramón Cáceres, Venkata N. Padmanabhan

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available:  [pdf\(187.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the I ...

### 16 [Fully dynamic search trees for an extension of the BSP model](#)

Armin Baumker, Wolfgang Dittrich


June 1996 **Proceedings of the eighth annual ACM symposium on Parallel algorithms and architectures**

Full text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 17 [Coherent network interfaces for fine-grain communication](#)

Shubhendu S. Mukherjee, Babak Falsafi, Mark D. Hill, David A. Wood

May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture**, Volume 24 Issue 2

Full text available:  [pdf\(1.72 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Historically, processor accesses to memory-mapped device registers have been marked uncachable to insure their visibility to the device. The ubiquity of snooping cache coherence, however, makes it possible for processors and devices to interact with cachable, coherent memory operations. Using coherence can improve performance by facilitating burst transfers of whole cache blocks and reducing control overheads (e.g., for polling). This paper begins an exploration of network interfaces (NIs) that u ...

### 18 [A pipelined, multiprocessor architecture for a connectionless server for broadband ISDN](#)

Daniel S. Omundsen, A. Roger Kaye, Samy A. Mahmoud

April 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 2

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 19 [Kernel Korner: Network Buffers and Memory Management](#)

October 1996 **Linux Journal**

Full text available:  [html\(46.60 KB\)](#) Additional Information: [full citation](#), [index terms](#)

### 20 [Network transparency: the plaNET approach](#)

Inder Gopal, Roch Guérin

June 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 3

Full text available:  [pdf\(1.79 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)







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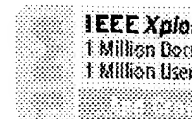
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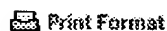
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**1 "Time-driven priority" flow control for real-time heterogeneous internetworking**
*Chung-Sheng Li; Ofek, Y.; Moti Yung;*

INFOCOM '96. Fifteenth Annual Joint Conference of the IEEE Computer Societies. Networking the Next Generation. Proceedings IEEE, Volume: 1, 24-28 March 1996

Pages:189 - 197 vol.1

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**2 Adaptive management of Bluetooth master/slave bridge**
*Misic, J.; Misic, V.B.;*

Performance, Computing, and Communications Conference, 2003. Conference Proceedings of the 2003 IEEE International, 9-11 April 2003

Pages:199 - 206

[\[Abstract\]](#)   [\[PDF Full-Text \(718 KB\)\]](#)   IEEE CNF

**3 A non-Gaussian self-similar process for broadband heavy traffic modeling**
*Karasaridis, A.; Hatzinakos, D.;*

Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. IEEE, Volume: 5, 8-12 Nov. 1998.

Pages:2995 - 3000 vol.5

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**4 Load characterization of a time-and volume-sensitive accounting meter**
*Budka, K.C.; Hong Jiang;*

Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. IEEE, Volume: 5, 8-12 Nov. 1998

Pages:3053 - 3057 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(212 KB\)\]](#) IEEE CNF

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**5 Constant-rate turbo-coded orthogonal frequency division multiplex videophony over UMTS**

*Cherriman, P.; Keller, T.; Hanzo, L.;*

Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. IEEE , Volume: 5 , 8-12 Nov. 1998

Pages:2848 - 2852 vol.5

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**6 Dynamic resource allocation for multi-service packet based LEO satellite communications**

*Ween, A.; Qureshi, A.; Kraetz, M.; Rossiter, M.;*

Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. IEEE , Volume: 5 , 8-12 Nov. 1998

Pages:2954 - 2959 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) IEEE CNF

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**7 Optimal quality of service guarantees for noisy packet data networks**

*Onyiah, G.; Balestrieri, F.; Krasniqi, X.; Clarkson, T.;*

Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. IEEE , Volume: 1 , 8-12 Nov. 1998

Pages:13 - 18 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) IEEE CNF

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**8 Estimating loss rates in an integrated services network by neural networks**

*Hui Tong; Brown, T.X.;*

Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. IEEE , Volume: 1 , 8-12 Nov. 1998

Pages:19 - 24 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(300 KB\)\]](#) IEEE CNF

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**9 Packet voice transmission for indoor optical wireless networks**

*Theodorou, P.; Elmirghani, J.M.H.; Cryan, R.A.;*

Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. IEEE , Volume: 1 , 8-12 Nov. 1998

Pages:288 - 293 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) IEEE CNF

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**10 Monitoring packet traffic levels**

*Erramilli, A.; Wang, J.L.;*

Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communications: The Global Bridge'. IEEE , 28 Nov.-2 Dec. 1994

Pages:274 - 280 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(800 KB\)\]](#) IEEE CNF

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**11 Routing with admission control in ATM networks**

*Oser, T.M.; Xuedao Gu; Vaman, D.R.;*

Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communications:

The Global Bridge', IEEE , Volume: 2 , 28 Nov.-2 Dec. 1994  
Pages:1212 - 1216 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(476 KB\)\]](#) [IEEE CNF](#)

**12 Bitrate management in ATM systems using recurrent neural networks**

*Necker, T.; Renger, T.; Kroner, H.;*

Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communications: The Global Bridge', IEEE , Volume: 3 , 28 Nov.-2 Dec. 1994  
Pages:1774 - 1779 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(668 KB\)\]](#) [IEEE CNF](#)

**13 Efficient simulation of high speed tandem networks using importance sampling and stochastic gradient techniques**

*Freebersyser, J.A.; Devetsikiotis, M.; Townsend, J.K.;*

Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communications: The Global Bridge', IEEE , Volume: 2 , 28 Nov.-2 Dec. 1994  
Pages:1095 - 1099 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(472 KB\)\]](#) [IEEE CNF](#)

**14  $\Sigma$ -matching technique for MMPP modeling of heterogeneous ON-OFF sources**

*Sang-Baeg Kim; Myeong-Yong Lee; Min-Jeong Kim;*

Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communications: The Global Bridge', IEEE , Volume: 2 , 28 Nov.-2 Dec. 1994  
Pages:1090 - 1094 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(436 KB\)\]](#) [IEEE CNF](#)

**15 Diversity reservation ALOHA**

*Chung, I.-H.; Rappaport, S.S.;*

Military Communications Conference, 1989. MILCOM '89. Conference Record. 'Bridging the Gap. Interoperability, Survivability, Security', 1989 IEEE , 15-18 Oct. 1989  
Pages:402 - 407 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(524 KB\)\]](#) [IEEE CNF](#)

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## Web

 Results 1 - 10 of about 51,900 for **bridge packet pointer parameter**. (0.23 seconds)

Hewlett-Packard Journal: HP OpenView BridgeManager: network ...

... and parses user input into packets sent to a **bridge**. ... the field in the result string, a **pointer** to the location of the field in the incoming **packet** buffer, and ...

[www.findarticles.com/p/articles/mi\\_m0HPJ/is\\_n2\\_v41/ai\\_8780322](http://www.findarticles.com/p/articles/mi_m0HPJ/is_n2_v41/ai_8780322) - 16k - [Cached](#) - [Similar pages](#)

## 6 - Networking

... bin/showmount -a 10.0.0.1 All mount **points** on 10.0 ... something with the packets as they go through your **bridge**. As you might expect, **Packet Filter** can be used to ...

[www.openbsd.org/faq/faq6.html](http://www.openbsd.org/faq/faq6.html) - 54k - [Cached](#) - [Similar pages](#)

## Manual section 3udi

... **bridge** driver unbinding (child to **bridge**) udi\_busaddr64\_t - 64 ... NSR transmit entry **point** ops vector ... driver ready to transmit **packet** udi\_nsr\_unbind\_ack - Network ...

[ou800doc.caldera.com/cgi-bin/manlist?section=3udi&lang=en](http://ou800doc.caldera.com/cgi-bin/manlist?section=3udi&lang=en) - 39k - [Cached](#) - [Similar pages](#)

## BCP: PPP Bridging Control Protocol Overview (RFC 3185)

... BCP) is responsible for configuring the **bridge** protocol **parameters** on both ends of the **point-to-point** link. BCP uses the same **packet** exchange mechanism as the ...

[www.javvin.com/protocolBCP.html](http://www.javvin.com/protocolBCP.html) - 26k - [Cached](#) - [Similar pages](#)

## Linksys: Support Pages

... The WAP11 is only a **bridge** from wired Ethernet to ... Q: Will the Access **Point** function in a Mac environment? ... If you experience a high **packet** error rate try to ...

[www.linksys.com/support/support.asp?spid=61](http://www.linksys.com/support/support.asp?spid=61) - 23k - [Cached](#) - [Similar pages](#)

## [PDF] Microsoft PowerPoint - jormakka-real

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... data (in a router) TCP, UDP- **bridge**, checks only (in a router) IP-**packet** recording Internet C ... **Points** out ITU-T E.500-series measurement definitions. ...

[www.fokus.gmd.de/events/qofis2000/slides/26ix00/session-05/jormakka-real.pdf](http://www.fokus.gmd.de/events/qofis2000/slides/26ix00/session-05/jormakka-real.pdf) - [Similar pages](#)

## [PDF] AppNote Bridged PPPoE\_v01.book

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... **bridge** ifadd intf=Br1 dest=Br1 => =>**bridge** ifattach intf ... The SpeedTouch TM Bridged PPPoE **Packet** Service 8 E-SIT ... Internet: 1 On the Start menu, **point** Connect To ...

[www.speedtouch.com/ST610%5CAppNotes/AppNote\\_BridgedPPPoE.pdf](http://www.speedtouch.com/ST610%5CAppNotes/AppNote_BridgedPPPoE.pdf) - [Similar pages](#)

## [PDF] FGR-115RE LONG RANGE ETHERNET BRIDGE Addendum to the FreeWave ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... to using FreeWave Ethernet modems to create an Ethernet **Bridge**. ... 5 Menu 3 (for **point** to **point**) RADIO **PARAMETERS** (0) FreqKey 5 (1) Max **Packet** Size 9 ...

[team.caltech.edu/members/Testing/Ethernet%20Addendum%20ver203.pdf](http://team.caltech.edu/members/Testing/Ethernet%20Addendum%20ver203.pdf) - [Similar pages](#)

## [PDF] IEEE 802.11 architecture

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... start a random timer prior to the **point** in time ... PC-Card Association table Inter-BSS Relay **Bridge** learn table STA ... A Associate STA-2 STA-2 Associate **Packet** for STA ...

[www.ictp.trieste.it/~radionet/2003\\_nitda/lectures/carlo/wireless/docs/802.11\\_Architecture.pdf](http://www.ictp.trieste.it/~radionet/2003_nitda/lectures/carlo/wireless/docs/802.11_Architecture.pdf) - [Similar pages](#)

## [PDF] "8 "8

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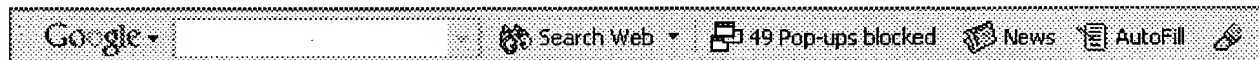
... for configuring, enabling and disabling the **bridge** protocol modules on both ends of the **point-to-point** link. BCP uses the same **packet** exchange mechanism as the ...

[www.patton.com/datasheet/MicroBridge\\_FAQs\\_hi-res.pdf](http://www.patton.com/datasheet/MicroBridge_FAQs_hi-res.pdf) - [Similar pages](#)

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